

AMENDMENTS TO THE SPECIFICATION

I. Please replace the paragraph on page 7, lines 3-14, with the following amended paragraph:

The multiplexer 30B controls the output by use of a select control signal MODE2 34B. When the select control signal MODE2 34B is 0, the multiplexer 24B outputs the data signal DATA2 28B. On the contrary, when the select control signal MODE2 34B [[34A]] is 1, the multiplexer 24B outputs the inverse of the carrier FRE from the frequency divider 24 in combination with the inverter 26. The output buffer 32B accepts the output from the multiplexer 24B and outputs that to the second output port OUT2 of the integrated circuit 20 able to switch between ultrasonic and infrared carriers. When the enable signal ENZ2 36B is 0, the output buffer 32B is in normal state, and when the enable signal ENZ2 36B is 1, the output buffer 32B is turned off and serves an output impedance.

II. Please replace the paragraph on page 8, lines 3-18, with the following amended paragraph:

FIG. 5 shows the signal waveforms of the integrated circuit 20 able to switch between ultrasonic and infrared carriers. In FIG. 5(A), when the select control signals MODE1 34A and MODE2 34B are fixed at 0, the two carrier signal output ports OUT1 and OUT2 of the integrated circuit 20 output binary signals and can be used as ordinary data ports. In FIG. 5(B), when the select control ~~signals~~ signal MODE1 34A ~~and MODE2 34B are~~ is the carrier signal ~~outputs~~ output and the data signals DATA1 28A and DATA2 28B are fixed at 0, the ~~two~~ carrier signal output ~~ports~~ port OUT1 ~~and OUT2~~ of the integrated circuit 20 ~~outputs~~ the carrier ~~signals~~ signal which can drive the infrared light emitting diode 40 or ultrasonic transducer 50. In FIG. 5(C), when the select control ~~signals~~ signal MODE1 34A ~~and MODE2 34B are~~ is the carrier ~~signals~~ signal and the data signals DATA1 28A and DATA2 28B are fixed at 1, the ~~two~~ carrier signal output ~~ports~~ port OUT1 ~~and OUT2~~ of the integrated circuit 20 ~~outputs~~ the carrier ~~signals~~ signal which can drive the infrared light emitting diode 40 or ultrasonic transducer 50.